

Natalia García Sánchez



Biotechnologist - Bioinformatician

About me

Detail-oriented and multifaceted Bioinformatician with a year of experience in a biomedical research group and a strong background in Biotechnology. Committed to finding groundbreaking solutions in the area of Biomedicine through the use of bioinformatic techniques.

Relevant Skills

Scientific Writing & Mathematical Modelling | Machine Learning | Genomic analysis | Ontology development | Python (keras, seaborn, sklearn, pandas, tensorflow, biopython) | R | Bash | Perl | SQL | SPARQL | Git



Bilingual / Native Spanish | English
Basic limited German | French

Contact & Portfolio

in [linkedin.com/in/natalia-garcía-sánchez-3813471b1](https://www.linkedin.com/in/natalia-garcía-sánchez-3813471b1)

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 <https://github.com/Natpod>

Professional Profile

I graduated in the year 2022 in **Biotechnology at the Technical University of Madrid (UPM)**, where I am currently pursuing a **Master's Degree in Computational Biology**. During my undergraduate studies I developed a strong background in genetics, molecular and structural biology, together with their experimental and computational applications in biomedicine. In addition, my Bachelor's specialization in Computational Biotechnology solidified my passion for the emergent field of translational bioinformatics, which aims to bring algorithms used in biological research into clinical significance.

Regarding my professional experience in this field, I have received a Collaborative Grant from the *Center for Biomedical Technology* in the DISNET network biomedicine project, where I carried out a one-year internship within an interdisciplinary research group led by Alejandro Rodríguez González. My responsibility as a support bioinformatician included developing sequence data driven drug repurposing hypotheses by deploying deep natural language models over drug target protein sequences. During this internship I have achieved competencies in polypharmacogenetics research and integrative omics biomedical analysis, culminating with an impactful scientific publication on the way.

My interest in applying computational methods in biology and the emergent potential of this field **led me to continue my studies** in my current masters program, where I could build insightful expertise on genomic data analysis, drug design, machine learning and graph database systems.

Currently, I am carrying out a research internship at the *Centro de Biotecnología y Genómica de Plantas (CBGP)* in a Collaborative Project with *Centro de Investigaciones Biológicas (CIB)* with the purpose of **analyzing RNA-seq data** to investigate the epigenetic determinants of microspore embryogenesis in common rapeseed. I am positive that this experience will allow me to broaden my newly acquired genomic data analysis competencies and complement them with my prior knowledge in machine learning, making me a valuable and resourceful asset for biomedical research **in a public institution or a private company**.

I am confident that my personal experience in volunteering and the latter research groups has boosted my collaborative skills. My commitment to excellence also shows that I have a strong willingness to work and adapt at all times.